TOSHIBA

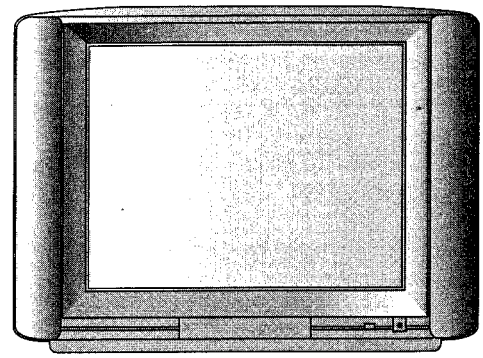
Nicam Digital Stereo Colour Television

with fastext

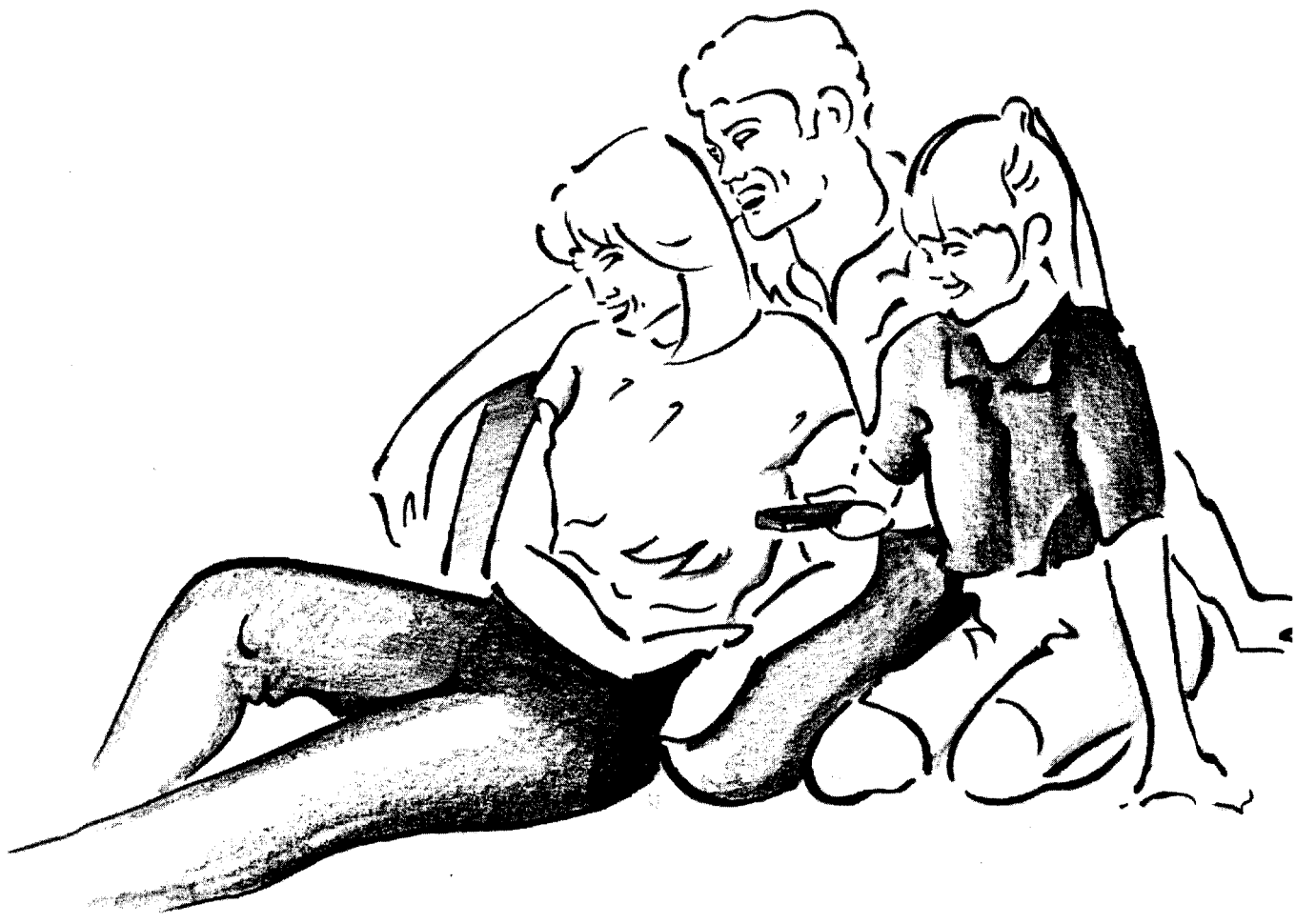
and

* DOLBY SURROUND PRO • LOGIC

2539DB
2939DB
3339DB



OWNER'S MANUAL



TOSHIBA

You have bought a superb new colour television from Toshiba - one of the world's leading manufacturers of quality home entertainment products.

If you follow the instructions in this booklet, your TV will give you many years' trouble-free enjoyment. Please read the instructions carefully before you begin using your TV and, keep the booklet handy for future reference.

This set includes many of the latest features to bring you great pictures and sound. Do take time to read all about them to help you get the very best from your TV.

And don't forget that Toshiba also makes a range of award winning video recorders with design and features which perfectly complement our TVs.

The Toshiba Corporation

Founded in 1875, the Toshiba Corporation is now the world's seventh largest manufacturer of electronic and electrical goods.

Toshiba has made more TV tubes than any other manufacturer in the world and was the first to introduce the Flatter, Squarer Tube (FST). FST technology, which gives sharper pictures and improved colour, has now become the standard TV format.

And in the sound field, Toshiba were the first manufacturer to offer televisions with built-in Dolby Surround Processors. Dolby Surround is the system which uses additional rear speakers to create a cinema-like experience allowing you to enjoy the film as the Director had originally intended.

As well as its market-leading home entertainment products, the company has an amazing range of other business interest's, from communications satellites to hydro-electric power plants. Toshiba equipment helps power Japan's legendary Bullet Train and the company's medical division makes body scanners and other vital life-saving equipment.

Nearly half the world's 1 mega-bit DRAM chips (the micro-chips which supply the brain power of most computerised equipment) are made by Toshiba and the company's portable lap-top computers are the world's number one best sellers.

It's this breadth of experience which helps keep Toshiba in the lead, and gives it's products the edge in technical excellence, design and reliability.

Glossary of Terms:

Bass/treble controls:	As in a Hi-Fi system, the bass and treble levels can be altered to match personal taste via the handset.
BEAB:	British Electrotechnical Approvals Board.
Dolby Pro Logic Surround:	Dolby Pro Logic Surround is the domestic version of Dolby Stereo - the unique recording system which adds depth and sensitivity to films in the cinema by surrounding the audience with sound.
Euro Connector:	See Scart Socket.
Fastext:	An improved text system providing easier and faster access to text pages via colour-coded keys on the remote control.
FST:	Flatter, Squarer Tube.
Nicam:	Nearly Instantaneous Companded Audio Multiplex. A digital transmission system which gives near CD sound clarity on both stereo and mono soundtracks when received by a Nicam TV or Nicam Video recorder.
PAL:	Phase Alternating Line. U.K. broadcast standard.
Programme Position:	The numbered button assigned to a particular station or channel on the remote control. 100 Programme Positions are available on this television set.
Scart Socket:	A standard 21-pin socket which allows direct audio/visual connection - providing higher quality. For example, for direct connection from Video recorder or Satellite receiver (also known as Euro Connector).
Size of Screen:	Screen sizes are measured diagonally across the screen and quoted in centimetres.
Stand-by:	Switches the set to 'Rest' mode to save power over short periods of time.
Text:	Direct page entry for normal teletext information.

Introduction

Optimum reception of colour and text requires a good signal and will generally mean that a loft or outdoor aerial must be used. The exact type and siting will depend upon your particular area and your local Toshiba dealer will be best to advise.

Contents:

GETTING STARTED

Introduction (Contents)	Page 3
Installation (Installation, Positioning and connecting your TV)	Page 4
Your remote control (Operation and batteries)	Page 5
Tuning-in (Switching on and tuning in)	Pages 6/7

BASIC OPERATION

Watching TV programmes (Volume, changing programme positions)	Page 8
Selectable (Picture adjustment using the remote control)	Page 9
Selectable tone (Sound adjustment using the remote control)	Page 10

SPECIAL SOUND FEATURES

Stereo or bilingual broadcasts (Stereo mode)	Page 11
Sound effects selection	Page 12
Digital Surround processor	Page 13
Dolby Pro Logic Surround	Pages 14/15
Dolby Surround level settings	Page 16

ADDITIONAL FEATURES

Menus (Timer, Noise reduction, Blue Back and External AV input -2)	Page 17
Menus (Tuning, Channel Skip, Manual Fine Tune)	Page 18
Menus (Teletext, Picture Height, Width and Shift)	Page 19
16:9	Page 20
Super woofer, Time Display	Page 21

VIEWING TEXT

The text buttons on the remote control	Page 22
Text (Fastext)	Page 23
Normal text (List mode)	Page 24

OTHER

TV Front Connections	Page 25
TV Back Connections	Page 26
Connections (Connections, Mono selection)	Page 27
Connecting a Satellite Receiver and Video Recorder	Pages 28/29
Specifications & Accessories	Page 30
For your guidance (Safety tips & Simple problem solving)	Page 31

Installation:

The mains supply required for this equipment is 220v to 240v 50Hz. Never connect to a DC supply or any other power source.
DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adaptor or consult your dealer. If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.
If this product is not provided with a mains plug, or one has to be fitted, then follow the instruction given below:
IMPORTANT. DO NOT make any connection to the larger terminal which is marked with the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
The wires in the mains lead on this product are coloured in accordance with the following code:

BLUE: NEUTRAL **BROWN: LIVE**

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
When replacing the fuse only a correctly rated approved type should be used and be sure to re-fit the fuse cover. The fuse fitted in this plug is **5A** and is approved by ASTA or BSI to BS1362. **IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.**

GETTING STARTED

Installation

The following describes the initial set-up procedure in order to operate all of the features of your TV. Always use the Scart lead provided to connect your video recorder, if it has a Scart socket. For connecting additional equipment see pages 25/26.

Positioning and connecting your TV:

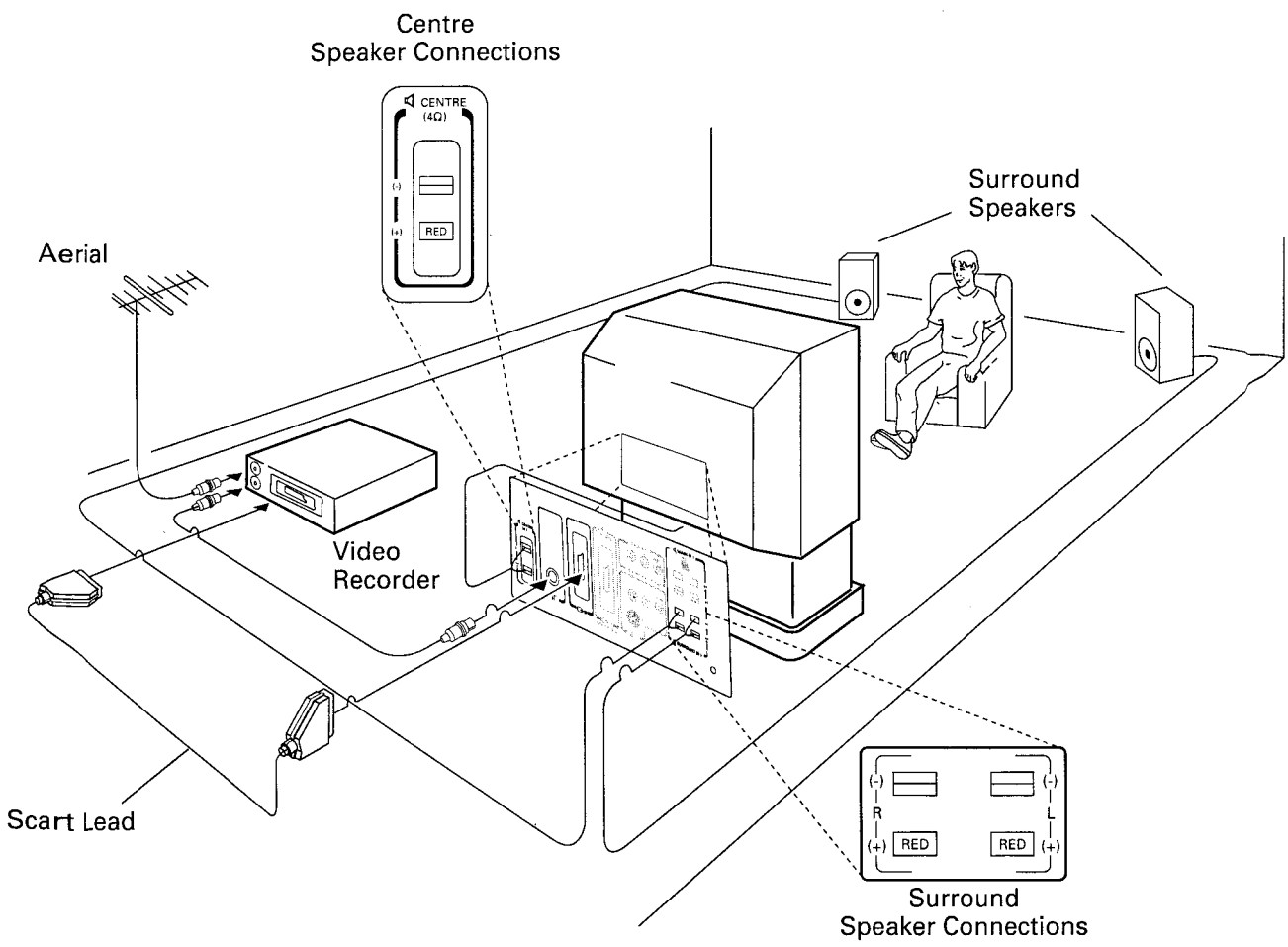
Locate the television where direct sunlight does not impair the picture, soft and indirect lighting is recommended for comfortable viewing.

Leave enough space around the television to allow adequate ventilation and sound response.

Avoid excessively warm locations to prevent possible damage to the cabinet or components.

Do not expose to excessive moisture or humid conditions.

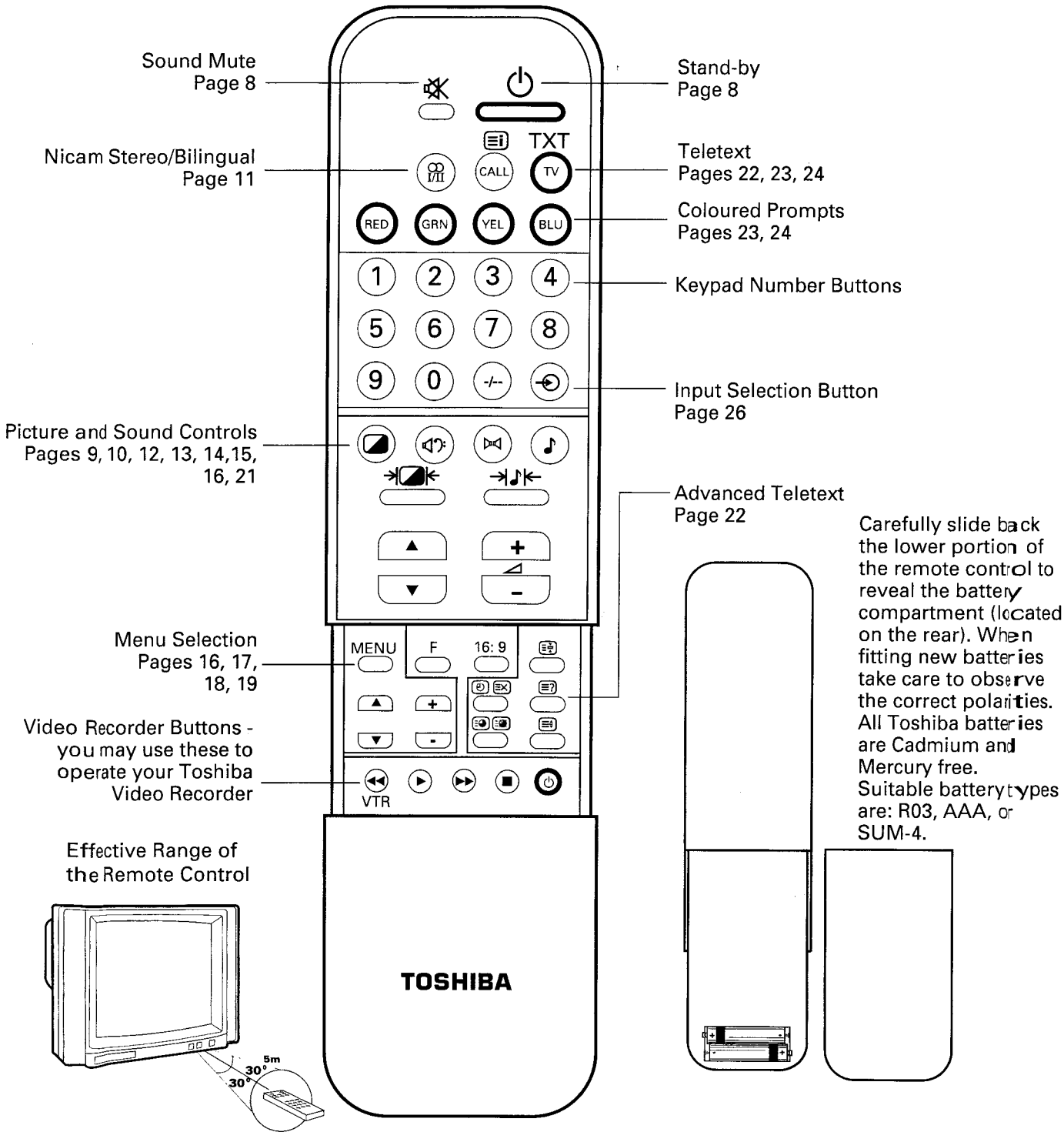
Centre and Surround speakers
These speakers are essential to get Surround effects from your TV. The centre speaker is detachable from the stand, if required, and should be placed below the TV screen. The rear speakers should ideally be placed above and behind the normal seating area as shown. See separate fixing instruction sheet for mounting and connecting of rear speakers. The optimum mounting height being 1.5 metres from the floor, alternatively these speakers can stand on the floor.
Note: The wire with the white trace must go to the positive (RED) terminal.
Always make sure that there are no 'short circuits' on the speaker connections.



Your remote control

The illustration below is designed to show the areas of the remote control.
Individual buttons are described in the text.

Operation:

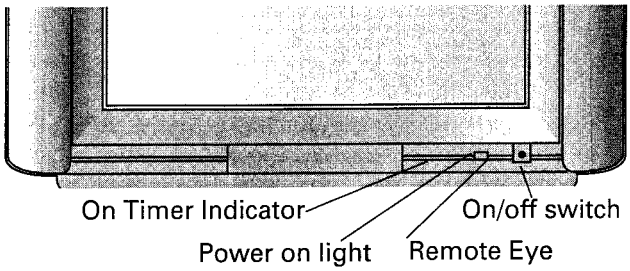


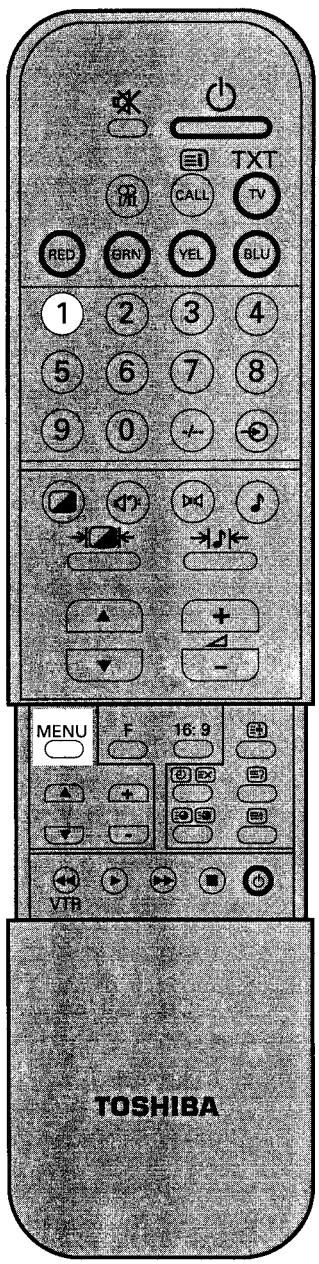
Caution:
DO NOT throw your batteries into a fire. Dispose of your batteries in a designated disposal area.
DO NOT combine a used old battery with a new one. **DO NOT** mix battery types.

Tuning-in

Due to the complicated map of TV transmitters we are unable to pre-tune your TV. The following simple steps will take you through the process, enabling you to allocate any TV station to any programme position.

Switching on:





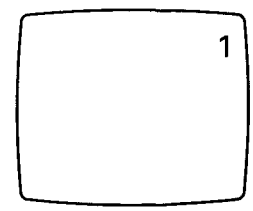
Pull to open

All the displays associated with tuning-in your TV will remain on screen for 6 seconds (approx). To bring them back simply press the associated function button
Once you have completed a step, you can cancel any display by pressing the CALL button.

1 Press the on/off switch to turn on the TV.

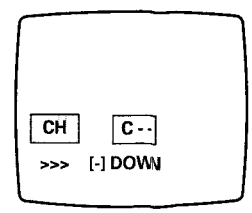
The Power-On red light will glow.

2 Press button 1 on the remote control.



3 Pull down the lower part of the remote control just enough to reveal the additional panel of buttons.

Press the MENU button repeatedly until you see the adjacent display



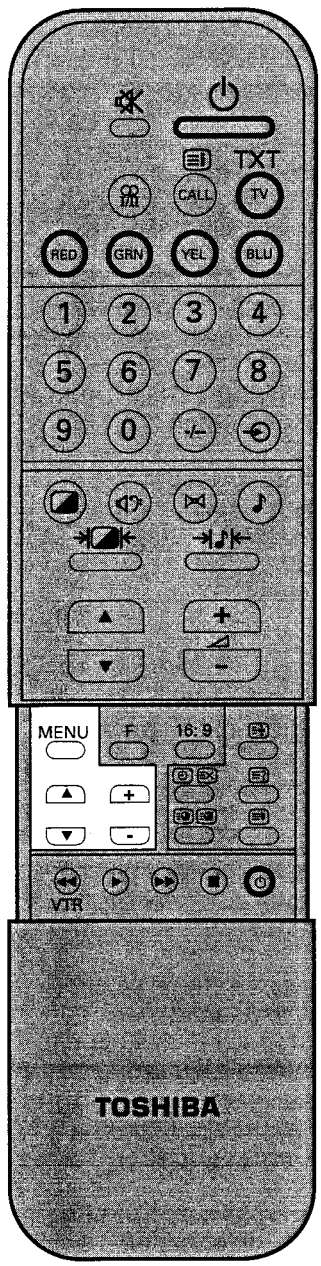
Do not worry if the display disappears, simply pressing the MENU button again recalls the display.

Note for engineers: This TV has direct channel entry if the channel numbers are known.
Select the screen in step 1 on page 7, then enter the appropriate channel number using the remote control. The channel is memorised when the display disappears.

Tuning-in

If the display has disappeared, simply press the MENU button once to bring it back.

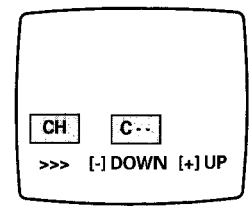
Tuning in:



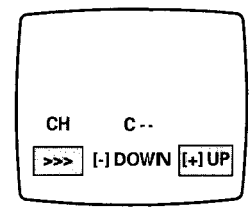
Note: To tune your television to receive from a satellite receiver or video recorder, connected via the aerial lead, refer to page 27.

Note: The highlighted function is activated.

1 With the adjacent display showing, press the [▼] button so that the >>> indicator is in red.



2 Press the [+] or ([−]) button to start the automatic search. The CH number will change as the TV searches through the available frequencies. When a station is found, it will be displayed along with the station name.



3 If this is BBC 1, simply allow the display to disappear and the station is memorised.

If this is not BBC 1 simply repeat steps 1 and 2 until the station is found.

4 For BBC 2 press button 2 on the remote control and repeat steps 1, 2 and 3.

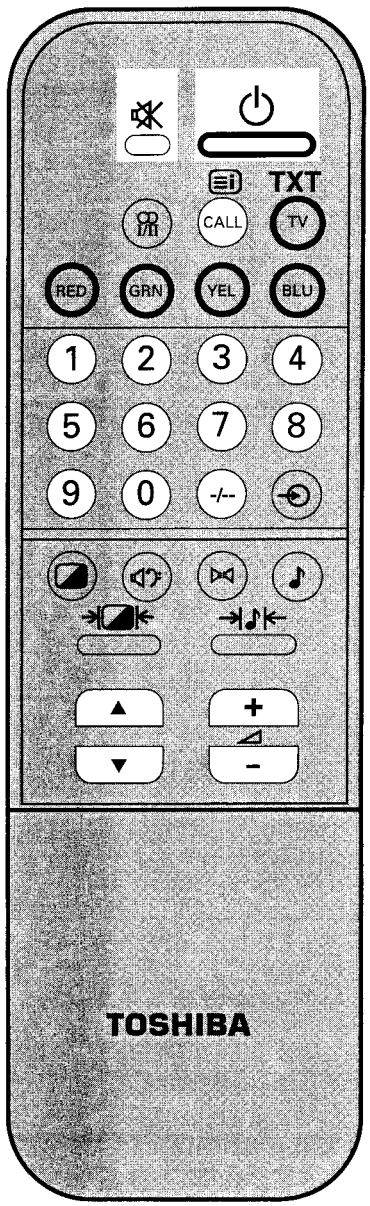
Repeat the procedure for all the remaining stations you wish to tune in.

Tuning-in is now complete.

Watching TV programmes

Having tuned your set, close the lower portion of the remote control. Whilst all the necessary adjustments and controls for your new TV are made using the remote control, you can alter the volume ◿ and programme position Ⓟ using the ▲ or ▼ buttons located under the flap on the front of the TV set. To open, simply press the centre of the panel. **Note: The set must be fully tuned-in to enable you to use these buttons.** (see page 25)

Volume settings, changing programme positions using the remote control:

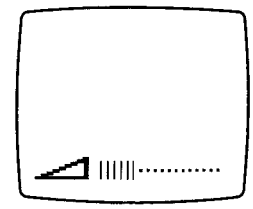


Standby Button ⏻:
This allows you to put the set into standby mode when leaving the TV unattended for short periods of time, or when using the 'ON TIMER' (see page 17). To return to TV mode press the ⏻ button, or any of the numbered buttons on the remote control.

To alter the volume

1 To raise or lower the volume press the ◿ [+] or [−] buttons.

The display will show the changes.



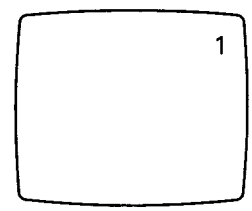
Alternatively:

2 The sound can be muted simply by pressing the 🔇 button. Press again to restore.

To change programme position

1 To select a programme position press one of the numbered buttons.

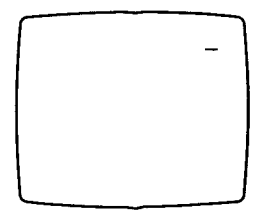
The programme position will be displayed in the top right corner of the screen.



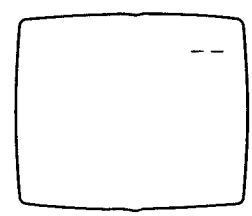
Alternatively:

2 You can change the programme position by using the [▲] button to increase the programme position by one or the [▼] to reduce the programme position by one.

1 For programme positions below 9, press the -/-- button to select –. Enter the desired programme position number using the numbered buttons on the remote control.



2 For programme positions above 9, press the -/-- button to select --. Enter the desired 2 digit programme position number (10-99).

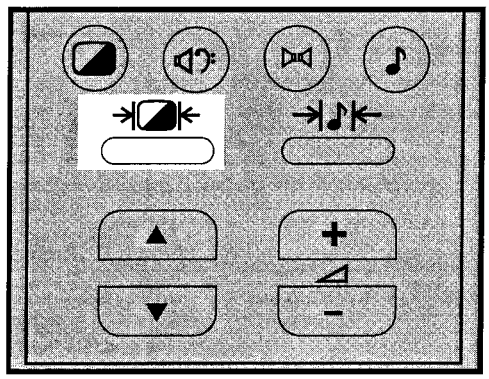


NOTE: To identify the current programme position press the CALL button. Press again to cancel the display.

Selectable picture

Selectable picture allows you to change the contrast at the touch of a button.

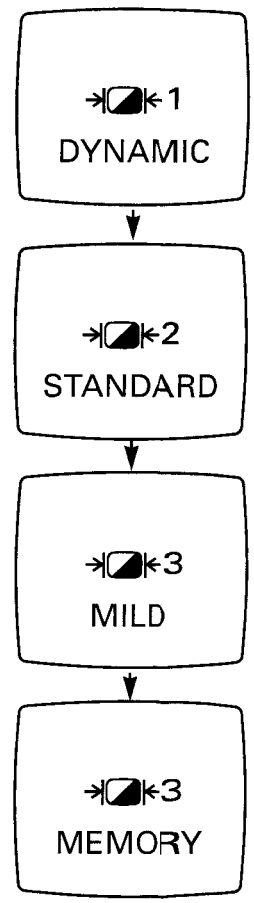
Picture adjustment using the remote control:



To select the alternative picture styles

1 Press the →◪← button repeatedly to view the different picture styles available.

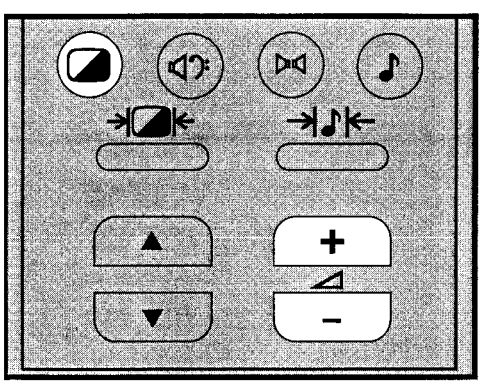
You will see four different options to complement the type of programme and room lighting. The display will change as shown.



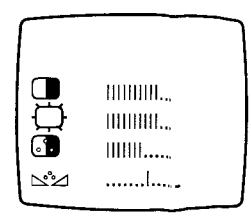
2 The memory will contain your own selection of Contrast, Brightness, Colour (and Tint) as set in steps 3 and 4.

To alter the Contrast, Brightness, Colour and Tint

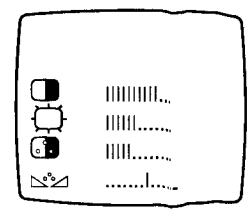
Note: Selected function is highlighted.



3 Press the button ◪ repeatedly to select between the Contrast ◨, Brightness ☐ and Colour ◪. The tint may only be adjusted on a tape which has been recorded & played back on NTSC video recorder.



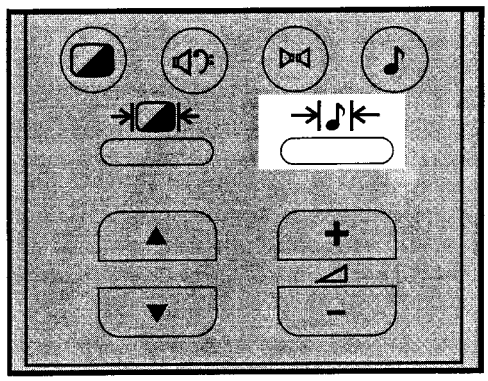
4 Use the [+] or [−] buttons to adjust the settings.



Selectable tone

Selectable tone allows you to change the treble and bass at the touch of a button.

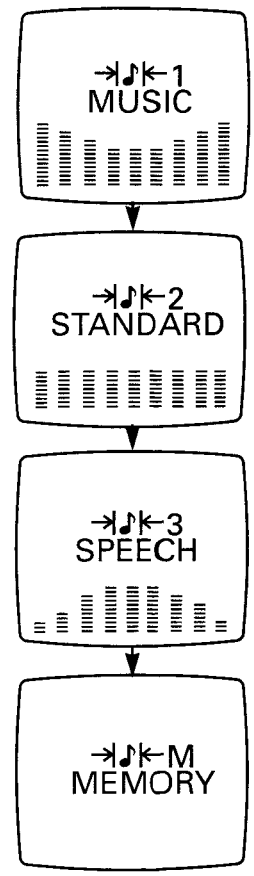
Sound adjustment using the remote control:



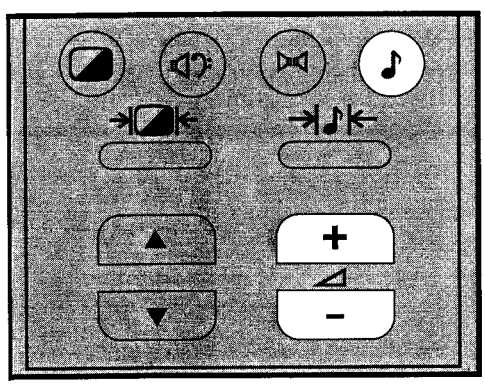
To select the alternative tone styles

1 Press the →♪← button repeatedly to choose the tone style that is right for the mood of the programme being viewed.

Note: The frequency bars are NOT adjustable.



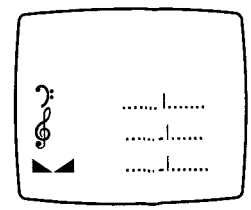
2 The memory will contain your own selection of Bass, Treble and Balance as set in steps 3 and 4 below.



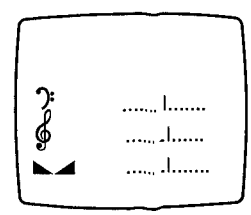
To alter the Bass, Treble and Left and Right Balance

Note: Selected function is highlighted.

3 Press the ♪ button repeatedly to select between Bass 𝄢, Treble 𝄞, and left and right balance ◣◢.



4 Use the + or − buttons to adjust the settings.



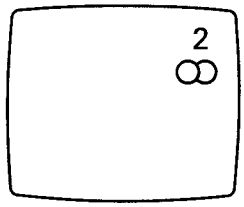
Stereo or bilingual broadcasts

This TV set is designed to receive and automatically select all Nicam transmissions. The following describes the operation and displays which accompany stereo broadcasts. **Nicam broadcasts can be in either Stereo or Mono.**

Stereo mode:

If Nicam broadcasts are transmitted the CD symbol will appear in the upper right corner of the screen, after a few seconds the display will disappear. The display will reappear each time you change programme positions, provided that the broadcast is in Nicam.

Note: Nicam broadcasts can be in stereo or mono.



Some common problems with Nicam reception:

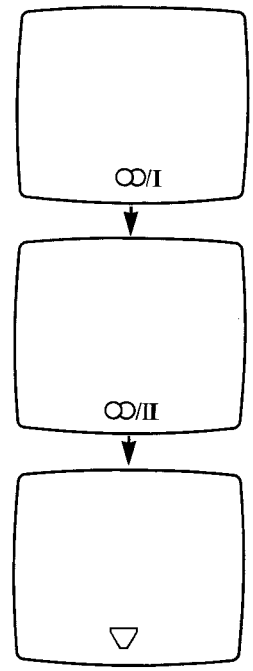
1 Your local transmitter has not been upgraded for Nicam e.g. No stereo indicator appears.
2 The original soundtrack of the film etc. was recorded in mono. Note: Stereo indicator appears but sound is in mono.

Note: For Nicam information please refer to the TV programme magazine or text pages for your area.

To select mode

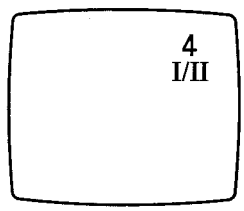
1 Press the ⓜ button. The CD/I, CD/II and ▽ appear alternately in the lower part of the screen.

2 Select CD/I or CD/II for Nicam sound, or ▽ for mono. (Non Nicam signal)



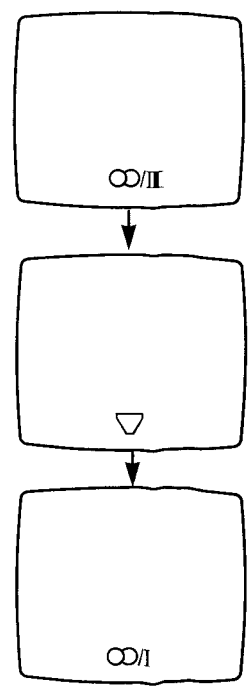
There is a possibility that a Bilingual (Dual) transmission could be available at a future date. This set is designed to detect such broadcasts which are indicated by the I/II symbol which will appear in the upper right-hand corner of the screen.

Selection of each soundtrack can be made by pressing the ⓜ button repeatedly.



1 Press the ⓜ button to select CD/II for soundtrack 2, press again to select ▽ for soundtrack 3, press again to bring you back to CD/I for soundtrack 1.

Symbol	Soundtrack
CD/I	Soundtrack 1
CD/II	Soundtrack 2
▽	Mono



Surround effect selection

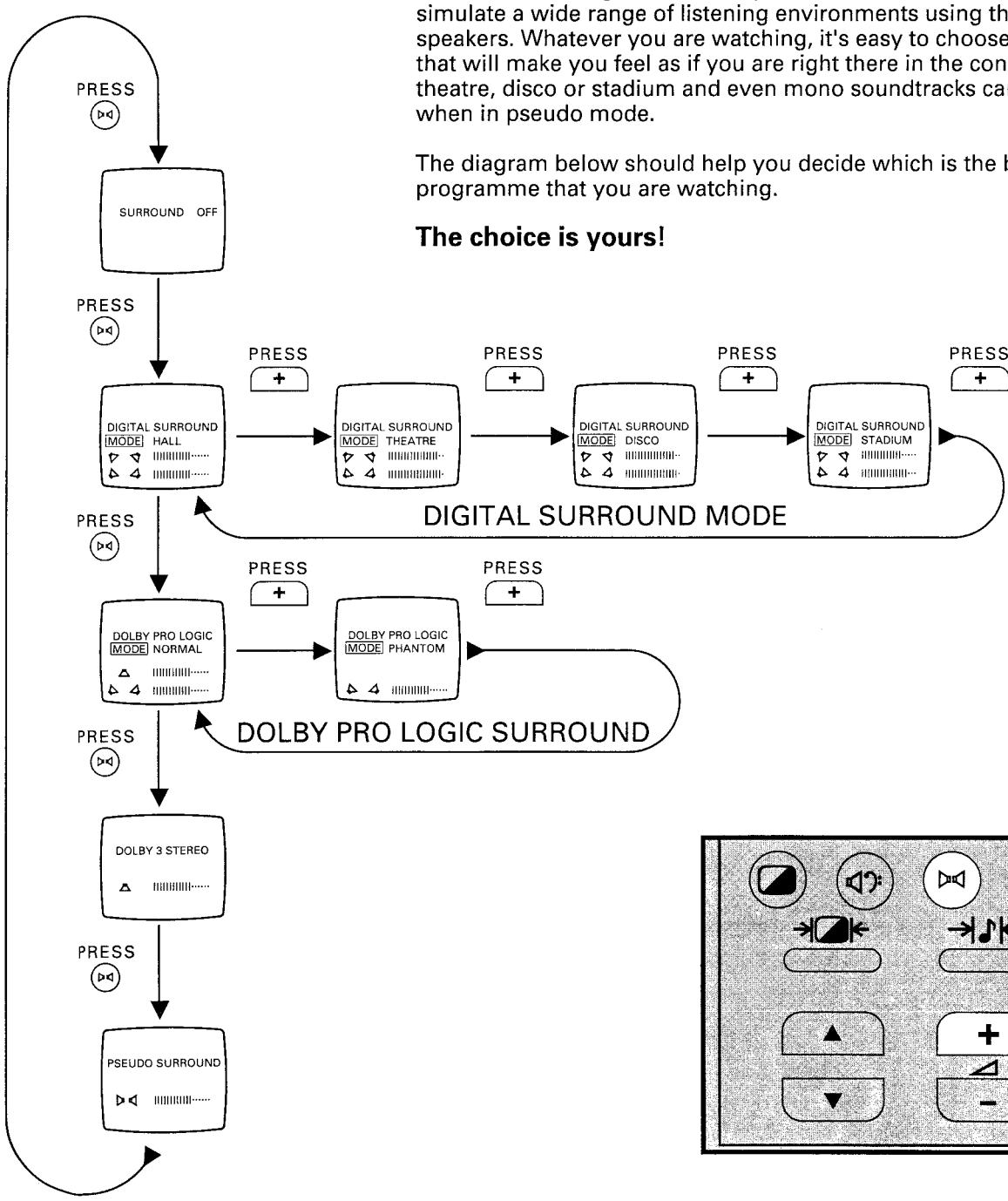
With Toshiba's Dolby Pro Logic Surround and 'Digital Surround processor' your television can simulate a wide range of various surroundings: From Dolby Pro Logic Surround (Normal and Phantom) and Dolby 3 Stereo to Hall, Theatre, Disco, Stadium and Pseudo surround.

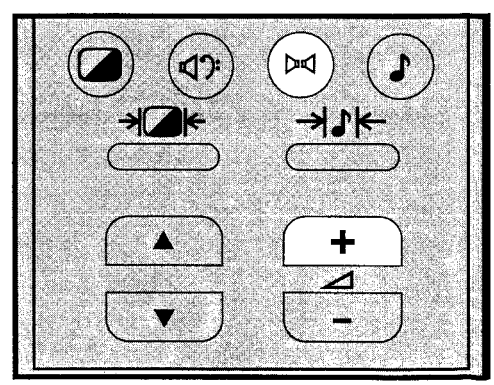
Toshiba's Dolby Pro Logic Surround TV's use a combination of five speakers (front-left, front-right, front-centre and two rear speakers) to reproduce in the living room the surround effects now available on most videos and an increasing number of TV broadcasts.

With Toshiba's Digital surround processor, various effects are available to simulate a wide range of listening environments using the surround speakers. Whatever you are watching, it's easy to choose the sound mode that will make you feel as if you are right there in the concert hall, movie theatre, disco or stadium and even mono soundtracks can be enhanced when in pseudo mode.

The diagram below should help you decide which is the best setting for the programme that you are watching.

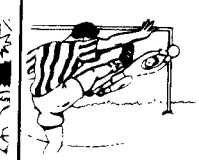
The choice is yours!

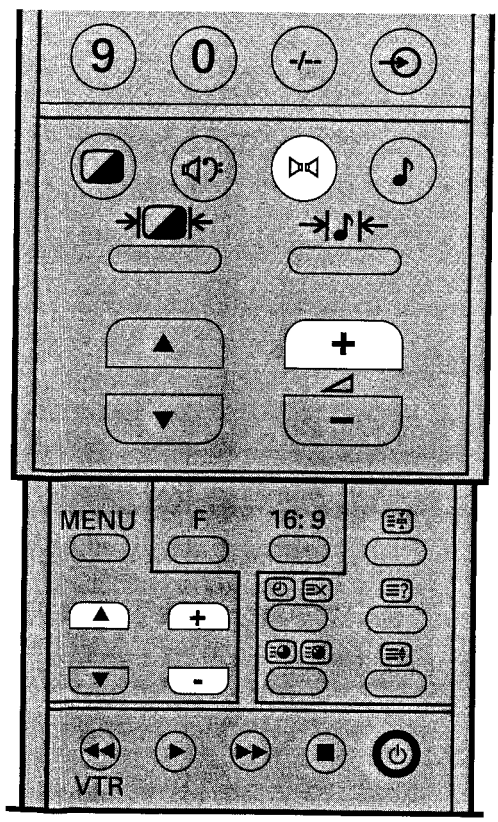




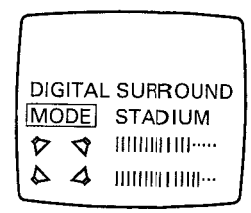
Digital surround processor

Note: Hall, Theatre, Disco, and Stadium effects are only available on a stereo signal. Pseudo surround works on both mono and stereo signals. All of the Digital surround modes are adjustable, the method of adjustment described below is the same for all the Digital Surround effects.

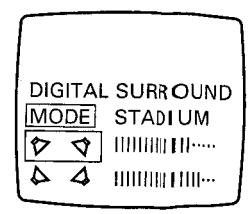
	HALL	THEATRE	DISCO	STADIUM	PSEUDO
SETTING					
EFFECT	A concert hall with a seating capacity of about 1500.	A movie theatre filled with a rich, warm sound.	A room so full of music that it seems to engulf the listener.	A large football or baseball stadium packed for a live game.	A synthetic surround effect for movies and TV programmes.
APPROPRIATE SOURCES	Classical, rock, pop or folk music. Ideal for TV programmes or music video tapes.	TV programmes or movies with stereo sound.	Disco, dance or jazz music.	Any live sports occasion.	Movies and TV programmes in mono.



1 Press the ⋈ button repeatedly to select 'DIGITAL SURROUND'. By pressing the + button repeatedly you can select the mode which best suits the type of broadcast.

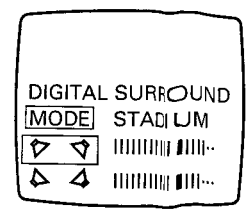


2 To alter the level of effect from the front and rear speakers, press the ▲ button, (in the concealed portion of the remote control). By repeatedly pressing the ▲ button you can select between the front and rear speakers.



3 Press the + (or −) buttons in the concealed portion of the remote control to increase (or decrease) the levels.

Note: The display must be on the screen to make these adjustments. Any changes are automatically stored in memory.



Dolby Pro Logic Surround

The realistic sound of the cinema is now available from your Toshiba television. This amazing 3 dimensional sound effect is available from any video and laser disks recorded in Dolby Surround and from an increasing number of TV broadcasts; **bear in mind that you need a stereo video recorder, connected via the scart lead provided, to obtain the effect from a video tape (which is recorded in Dolby Surround).**

Dolby Pro Logic Surround

Part of the excitement of a great film in the cinema often comes from the soundtrack. Hearing thunder rumble round the auditorium, or being surrounded by the atmospheric sounds of the jungle can make all the difference to the extent that we are drawn into a film.

These effects are usually created in the cinema by Dolby Stereo, a unique sound recording system which adds depth and sensitivity to a stereo sound track by projecting a surround track behind and around the audience.

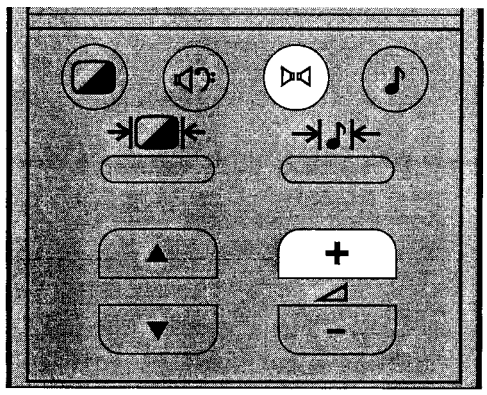
This surround track has now been used on almost 5,000 films, most of which are now available on video. It is also broadcast as part of the signal when TV companies show these feature films in Nicam stereo. But until now, ordinary TV's were unable to 'unlock' this track and play it back around and behind the viewer.

Now Toshiba brings Dolby Pro Logic Surround (the domestic version of Dolby Stereo) into your living room - letting you, the viewer, enjoy films at home just the way the director intended them to sound in the cinema.

Dolby Pro Logic: Normal uses a combination of 5 speakers - front-left, centre, front-right and two rear speakers to reproduce in the living room the surround effects now available on most videos and an increasing number of TV broadcasts.‡

Dolby Pro Logic: Phantom uses a combination of 4 speakers - front-left, front-right and two rear speakers. If you cannot use the stand, this mode will enable you to enjoy the effects of Dolby Pro Logic Surround without using the centre speaker.

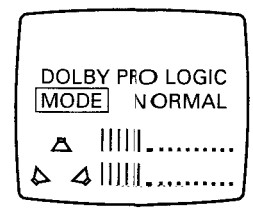
Dolby 3 Stereo uses a combination of 3 speakers - front-left, centre and front-right. If you choose not to use the rear speakers, this mode will produce a strong, wide stereo surround effect.‡



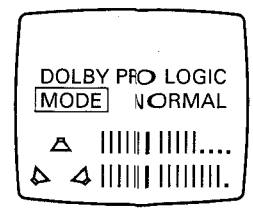
‡ The stand's detatchable centre speaker can be used for Dolby Pro Logic Normal and Dolby 3 Stereo.

To select Dolby Pro Logic Surround

1 Press the ⋈ button repeatedly to select DOLBY PRO LOGIC. By pressing the + button repeatedly you can select between the two modes available, NORMAL and PHANTOM.

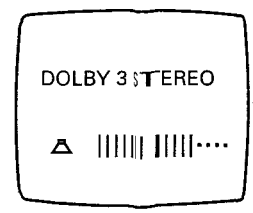


2 To set the levels see page 16.

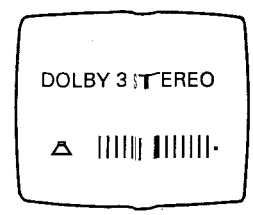


To select Dolby 3 Stereo

1 Press the ⋈ button repeatedly to select DOLBY 3 STEREO.



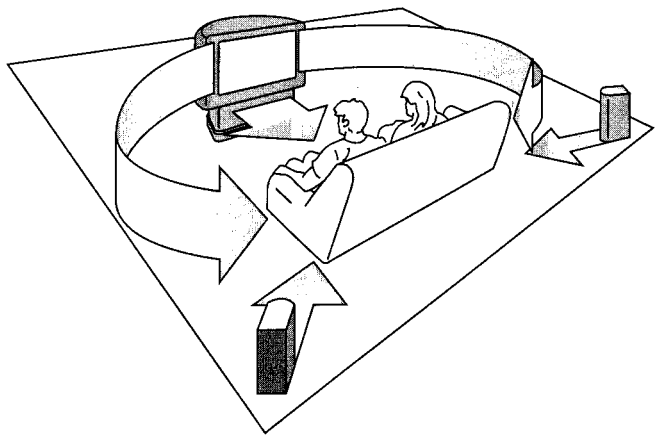
2 To set the levels see page 16.



Dolby Pro Logic Surround

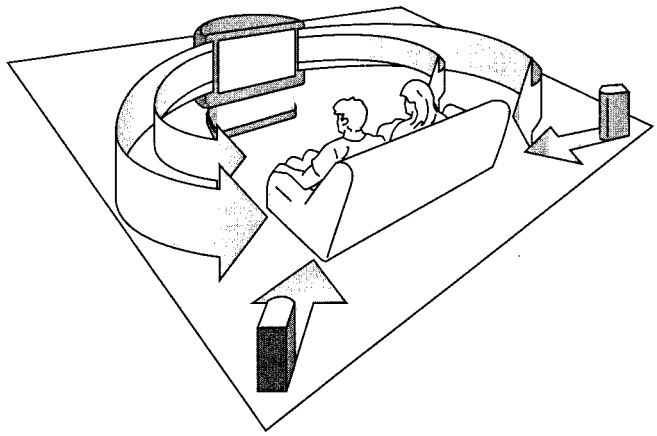
The illustrations below show the sound effects available from the three modes, and the speakers used.

Dolby Pro Logic: Normal



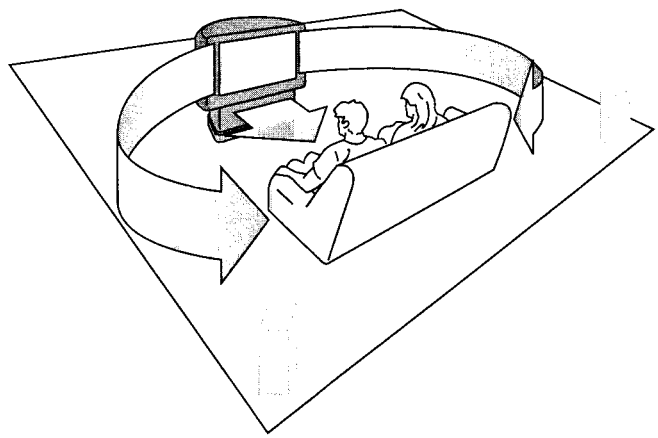
5 Speakers Driven:
Front Left,
Centre,
Front Right,
Rear Left and Right.

Dolby Pro Logic: Phantom



4 Speakers Driven:
Front Left,
Front Right,
Rear Left and Right
Super Woofer Feature.

Dolby 3 Stereo:



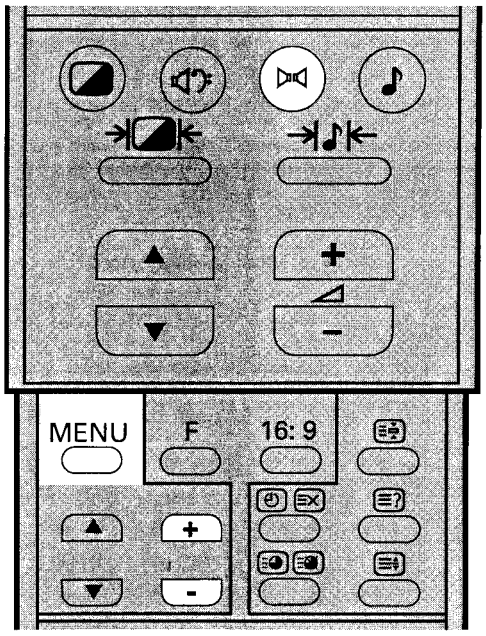
3 Speakers Driven:
Front Left,
Centre,
Front Right.

Dolby Surround level settings

When running the following Test sequences ensure that you are seated where you would normally watch the TV. These Test sequences are designed to let you balance all the speakers to the same volume level. The method of adjustment described below is the same for all the Dolby Surround effects (Dolby Pro Logic Surround and Dolby 3 Stereo). The viewing position is important to gain the maximum effect from this TV. **Note:** To adjust the front left and right balance see page 10. Once the levels have been set they will need little or no adjustment.

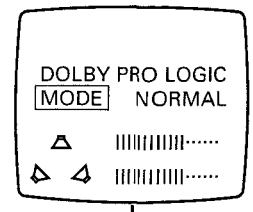
Pro Logic and Dolby 3 settings:

In order to get the best sound response from your new Toshiba TV we strongly recommend that adjustments should be made whilst running the TEST menu (all the speaker levels are fully adjustable). The TEST will play a 'white noise' through each of the speakers in turn. The display will show you which speaker is in play, adjustment to the speaker levels may be made whilst it is highlighted on the screen.

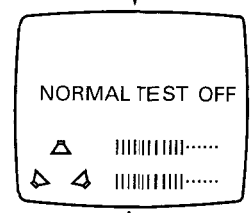


To select Dolby Pro Logic TEST mode: Normal/Phantom

1 Press the ⊠ button repeatedly, until the adjacent display appears.

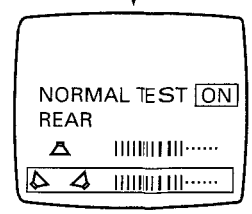


2 Press the MENU button repeatedly to select the NORMAL TEST screen.

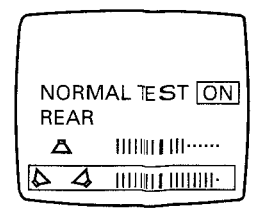


3 Press the [+] button in the concealed portion of the remote control to turn the TEST on.

LEFT → CENTRE → RIGHT → REAR



4 Adjust the Centre and Rear levels to match the Front Left and Right by pressing the [+] or [−] buttons (in the concealed portion of the remote control) whilst the relevant display is highlighted.



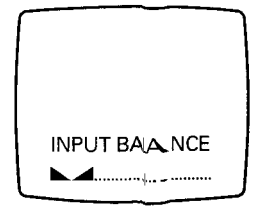
5 To end the TEST press the MENU button. This will then turn the TEST off.

Note: Repeat this procedure for each of the Dolby modes.

Input balance adjustment
(Dolby Pro Logic Normal and Dolby 3 Stereo **only**.)
The Input balance is nominally set and should need little or no adjustment.
When listening to a monaural sound such as dialogue, the sound should come predominantly from the centre speaker. If not, adjust the input balance control. Using a dialogue portion of the programme, activate the input balance mode and adjust the control to minimize any dialogue leakage coming from the left and right speakers. Once this adjustment has been completed, exit the input balance menu. The centre channel will be restored to its previous setting.

Setting the Input balance

1 Press the MENU button until the adjacent display appears. Press the [+] or [−] buttons on the remote control to change the input balance.



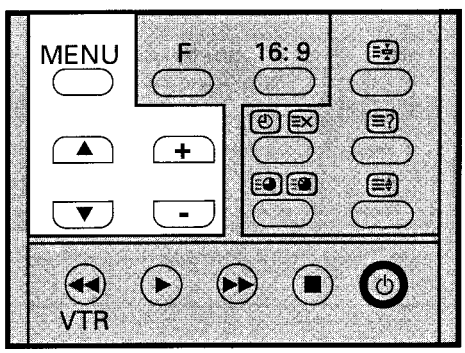
Note: When in this mode the Centre speaker is muted.

MENU's

Pull down the lower part of the remote control just enough to reveal the additional panel of buttons. By pressing the MENU button repeatedly you will see a set of 6 MENU's pages:

Timer, Noise Reduction, Blue Back and External AV input ⇥2:

The Timer is especially useful if you want the television to turn itself on or off after a selected period of time. For example: If you want the set to turn itself on in 30 minutes time and watch programme 3 simply follow the procedure in steps 1 and 2. Activation of the Timer is indicated by a green warning light on the front of the TV (see page 6).



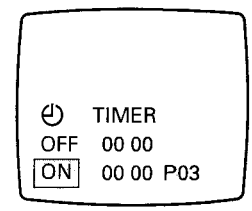
The Noise Reduction (NR) feature can improve the picture quality of a weaker signal.

The Blue Background control (BB) instructs the television set to mute the sound and switch the screen to blue when no signal is being received.

Scart 2 selects the type of video recorder to be connected to the number 2 scart socket. The [S] sets up the television for S-VHS, the [AV] sets the television for normal Audio Video.
Remember: Only connect your video recorder to Scart 1.
Note: See page 26 for connections.

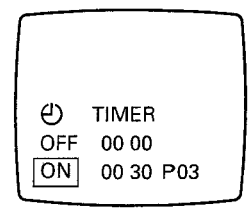
To select the Timer Menu

1 Press the MENU button to bring up the adjacent display. To select between 'ON' or 'OFF' press the ▲ (or ▼) buttons.



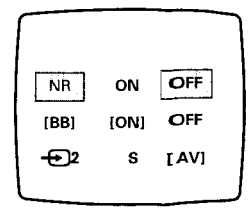
2 Use the numbered buttons to set the ON or OFF delay time, e.g. On in 30 minutes.

Note: When setting the ON time you will be required to enter the selected programme position. The set must then be put into standby mode (see page 8).
The maximum time delay is 12 hrs 59 mins.

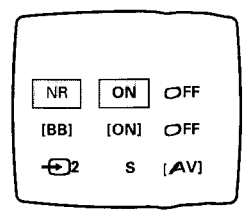


To select - NR, BB, External AV input ⇥2

1 Press the MENU button to bring up the adjacent display. Press the ▲ (or ▼) buttons to select between the options listed.



2 To turn on (or off) or select the various functions, press the ▲ (or ▼) buttons.



MENU's

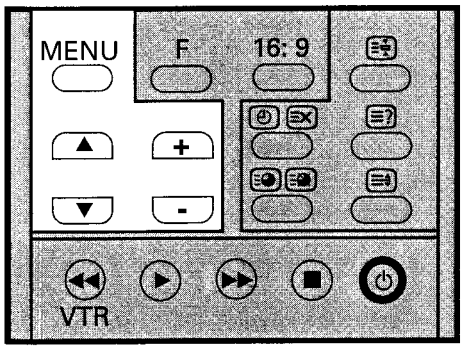
Tuning, Channel Skip, Manual Fine Tune:

Tuning-in:

The method of tuning in your TV stations is covered earlier on pages 6 and 7.

Channel Skip:

The Skip feature enables you to prevent certain programme positions from being viewed.
For example, if you are going out for the evening and you do not wish your children to watch a certain film etc., you can skip the programme position and take the remote control with you. The TV will function normally, using the controls on the front of the TV but the set will not show the skipped programme position.
⌗ Indicates that the current programme position will be skipped.

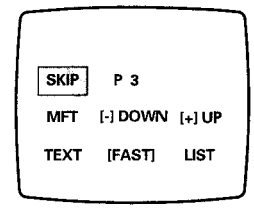


Manual Fine Tune (MFT)

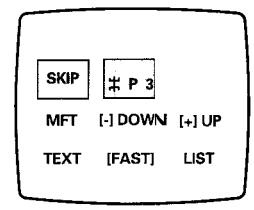
Manual Fine Tune is not normally needed but will allow you to search manually, up or down to find the strongest signal.

To select SKIP

1 Select the programme position to be skipped and press the menu button repeatedly until the adjacent display appears. Press the ▲ (or ▼) button to select SKIP from the three options.

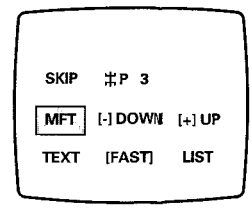


2 To turn the SKIP option on or off use the ▲ (or ▼) Button.

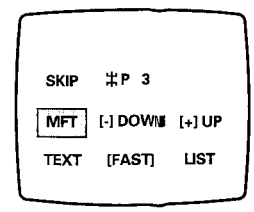


To select MFT

1 Press the MENU button repeatedly until the adjacent display appears. By pressing the ▲ (or ▼) buttons you can select MFT from the three options.



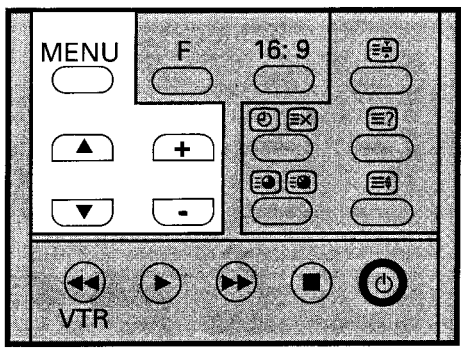
2 Press the + button to fine tune up, press the − to fine tune down.



MENU's

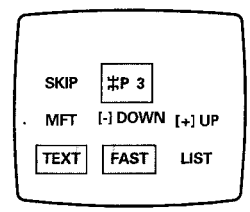
Teletext:

Teletext: The MENU button allows selection of either Fastext (Fast) or Normal Text (List). The use of these features is described on pages 23 & 24.

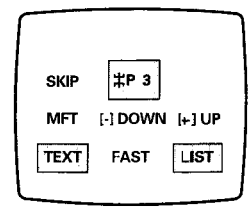


To select TEXT

1 Press the MENU button repeatedly until the adjacent display appears. By pressing the ▲ (or ▼) buttons you can select TEXT from the three options.



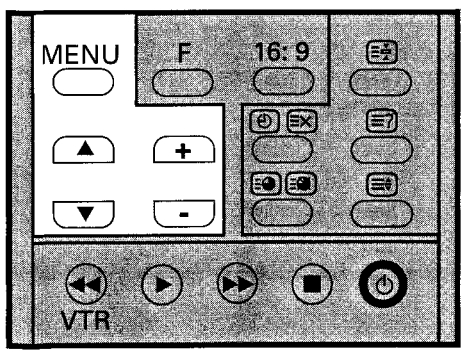
2 To change between FAST and LIST use the + button.



Picture Height, Width, Shift:

Picture Height, ↕ Width, ↔ and Shift ⧉
These settings are all pre-set in the factory and should need no alteration. Adjustment, however, is possible if required.

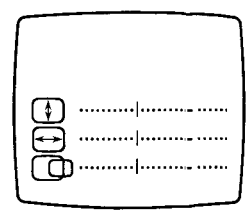
NOTE: Pressing the F and 0 buttons together will return the TV to factory-set levels.



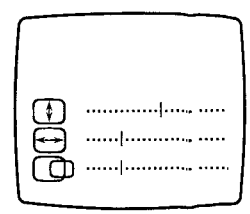
To select Height, Width, Shift

NOTE: Selected function is highlighted.

1 Press the MENU button to bring up the adjacent display. To select HEIGHT, WIDTH or SHIFT press the ▲ (or ▼) buttons.



2 Press the + (or −) buttons to adjust the settings.



16:9

This feature has been included for programmes which are transmitted in the wide screen format.

16:9:

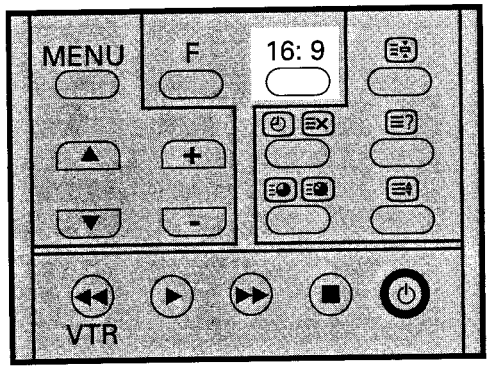
Your new Toshiba TV is capable of showing TV broadcasts in 2 formats:
Normal (4:3) and
Wide Screen (16:9).

Most feature films are shot in wide screen (16:9) format, which is then compressed at the studio. With the growth of satellite broadcasts, more and more films are broadcast in Wide Screen format.

If you view a Wide Screen broadcast in Normal (4:3) mode the aspect ratio will be incorrect.

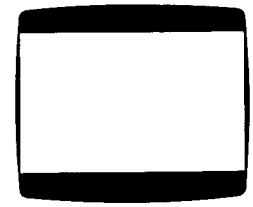
The aspect ratio of the transmission can be corrected by a feature known as picture compression. When viewing a transmission in this mode the images on the screen are restored to their normal proportions. Black bars will appear at the top and bottom of the screen.

NOTE: There could be interference lines outside the viewing area, this is normal.

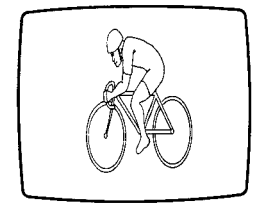


To alter aspect ratio

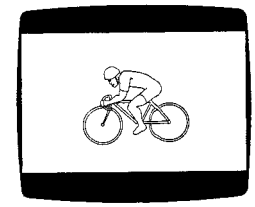
1 Press the 16:9 button in the concealed portion of the remote control.to view wide format broadcasts.



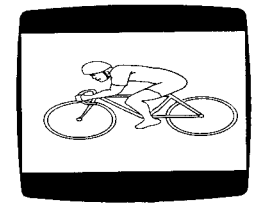
The adjacent display shows normal format viewing a wide screen transmission.



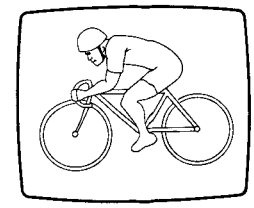
By pressing the 16:9 button the aspect ratio is altered and the images are restored to their normal proportions.



Viewing a normal transmission whilst in 16:9 format will result in the images being reduced as shown in the adjacent display.



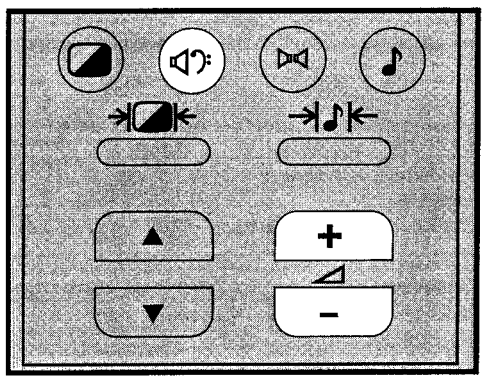
To revert to normal 4:3 format, simply press the 16:9 button again.



Super woofer, Time display

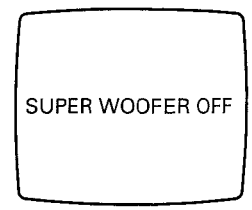
Super woofer:

A Super woofer system which has been built into your new Toshiba television which will add a greater depth to the sound.



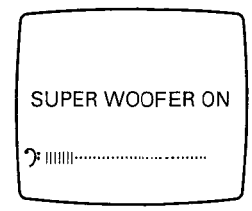
To select Super woofer

1 Press the ⓐ button to select SUPER WOOFER 'ON'. Press again to turn it 'OFF'.

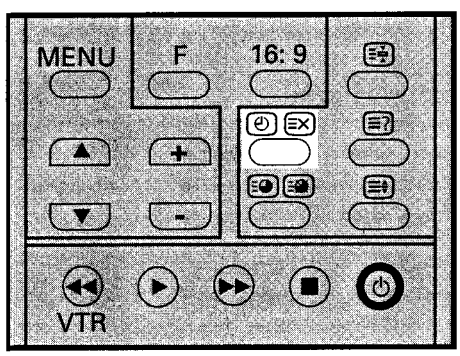


2 Press the [+] (or [−]) button to adjust the 'volume' level .

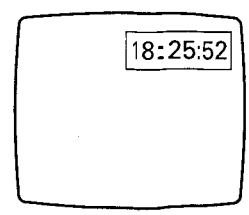
Note: The Super woofer is not utilised when using Dolby Pro Logic Normal or Dolby 3 Stereo modes.



Time display:



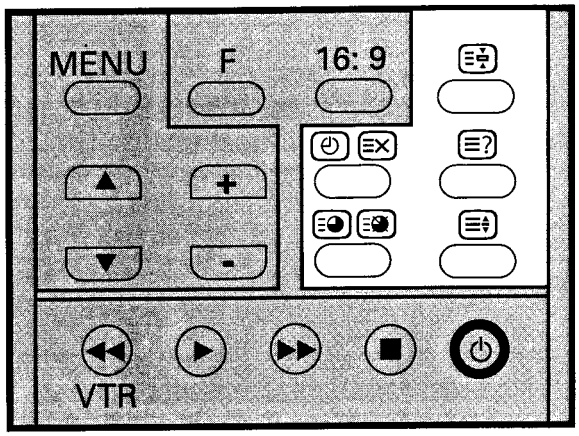
1 **Time Display:**
If you press the ⓐ button whilst watching a normal TV broadcast, you will see a very accurate time display appear in the top right corner of the screen.
ie 6.25 and 52 seconds p.m.



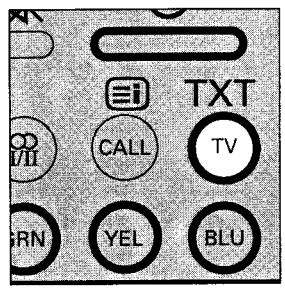
The text buttons on the remote control

Below is a introduction to the text buttons on your remote control and their functions.
Please Note: It is not possible to change programme positions whilst in text mode. Please note: The Timed Page button (📖📖) has no function on this set as this service is not currently available in the UK.

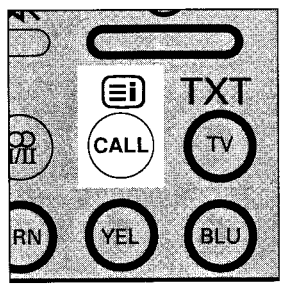
Text:



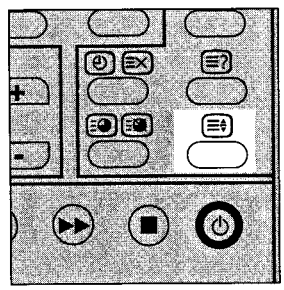
1 **TXT/TV To display a page of text:**
Press the **TXT/TV** button to display the initial page. Press again to superimpose the text over a normal broadcast picture. Press again to return to normal TV mode.



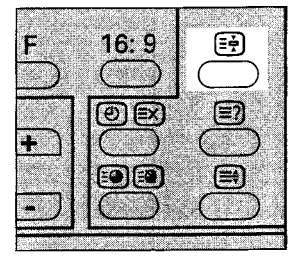
2 **To display an index page:**
Press the 📖 button to call up the index page for the subject area you are viewing. If you are viewing a section index, by pressing the 📖 button again you will see the general index.



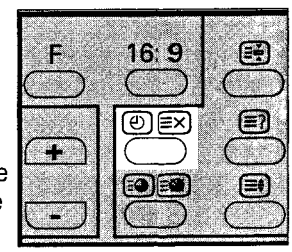
3 **To enlarge the text display size:**
Press the 📖 button once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to the normal size.



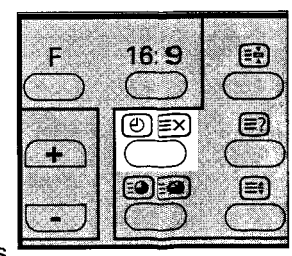
4 **To hold a wanted page:**
At times it is convenient to hold a page of text. Press the 📖 button and the word HOLD will appear in the top left of the screen. Press again to release.



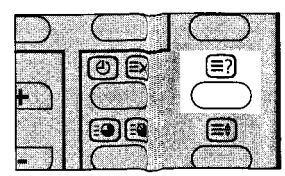
5 **To select a page whilst viewing a normal picture:**
If, whilst in text mode, the 📖 button is pressed, a normal picture will be displayed. A page selection can be entered and the TV will indicate its presence by displaying a box with the selected page number. Press the **TXT/TV** button to view the page.



To display news flashes:
To view news flashes as they are broadcast, select the news flash page for the particular text service (see the index page of text service). Press the 📖 button. The news flashes will be displayed as and when they are broadcast. Press the 📖 button to cancel the display. Note: It will not be possible to change programme position whilst in this mode, you will have to press the **TXT/TV** button to cancel the text first.



6 **To reveal concealed text:**
Some pages cover topics such as quizzes and jokes. To discover the solutions press the 📖 button.



Fastext

Fastext is a method of viewing text pages by related subjects. The subject areas are grouped by the broadcast studio so that different classifications are presented to you. This is done using coloured prompts. There are many different areas covering a wide variety of topics. Please note: The Timed Page button (📺📺) has no function on this set as this service is not currently available in the UK.

Using Fastext:

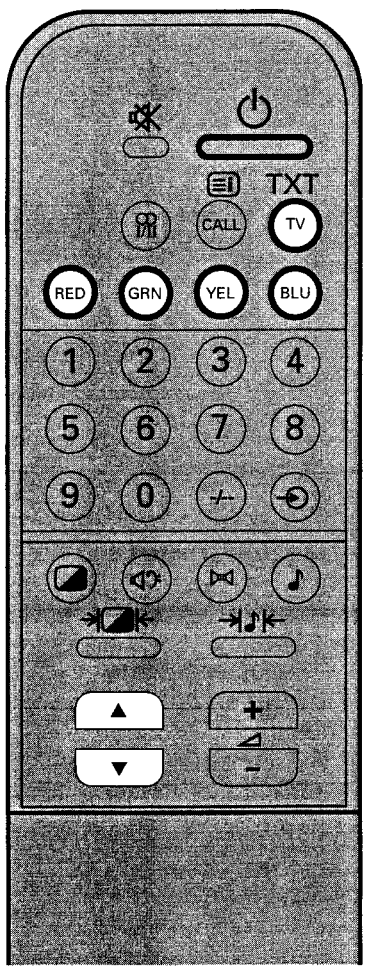
When you first select text you see an index page which briefly outlines the main subject areas and their relevant pages.

To access any given topic press the relevant coloured prompt button.

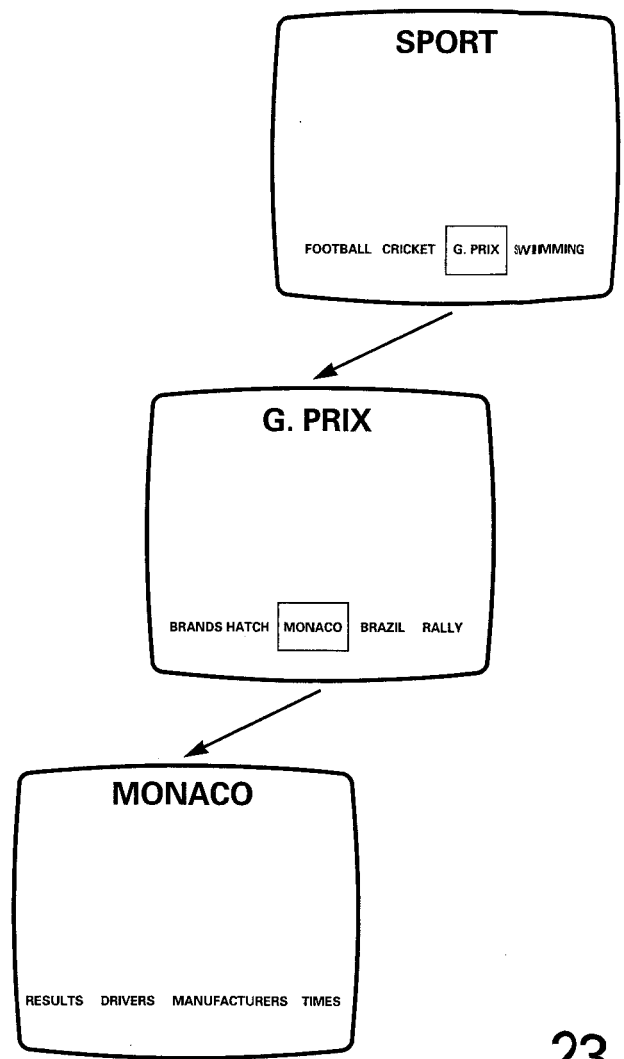
Alternatively, you can access any text page by simply entering the appropriate 3 digit page number using the numbered buttons on the remote control.

To advance to the next page of text press the ▲ button, to go back to the previous page of text press the ▼ button.

This will enable you to advance through the pages without having to enter each 3 digit page number.



1 Press the **TXT/TV** button to select Text mode. The subject areas are displayed along the bottom of the screen and are printed in RED, GREEN, YELLOW and BLUE. To select one of the subject areas simply press the corresponding button on the remote control.

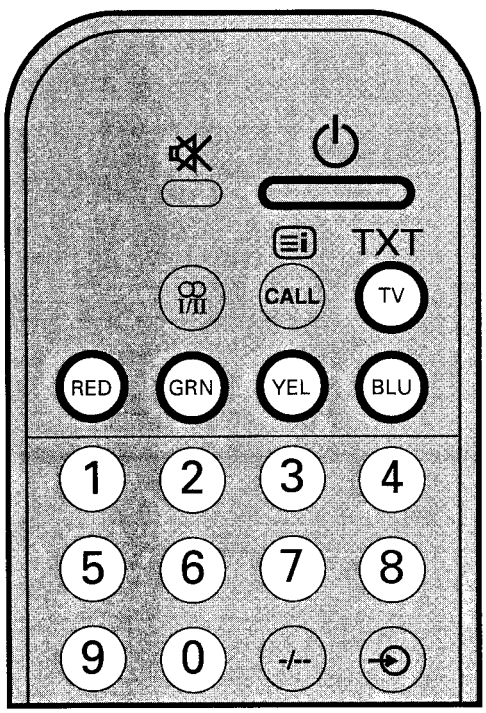


Normal text (LIST mode)

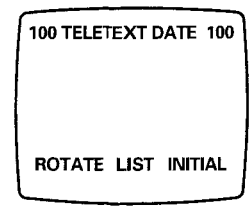
Please note: The Timed Page button (📺📺) has no function on this set as this service is not currently available in the UK.

Using Text: As selected from the MENU options on page 19

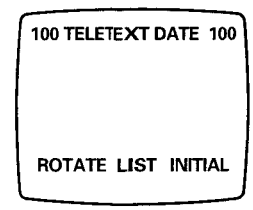
When you first select TEXT you will see an index page which briefly outlines the main subject areas and their relevant page numbers. You can access any text page by simply entering the appropriate 3 digit page number using the numbered buttons on the remote control.
A feature of this set is that you can programme up to four of the most frequently used text pages. For example: If you use teletext to see what's on TV you can programme the set to hold these pages in memory. So each day whenever you select TEXT, you will be able to view these pages almost instantly.
In addition you can programme the set to display the same page each time you switch the TV on. This could be a complete index page, a horoscope page etc.
All of these options are available for each programme position. For example: You can pre- select an initial page for the teletext service on BBC 1, a different initial page for BBC2 and so on.



1 Press the Ⓣ button to select TEXT. Enter the required 3 digit page number using the numbered buttons on the remote control.

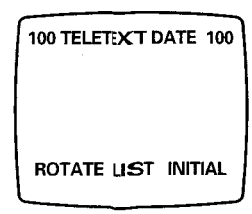


2 To programme the set to hold 4 pages in memory.
Select the LIST function by pressing the GREEN button on the remote control.

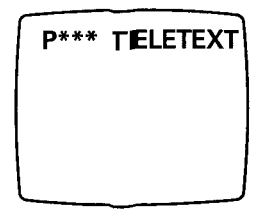


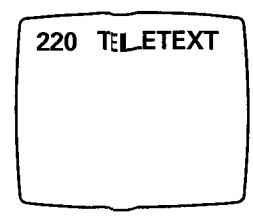
Enter the first page number and then press the green prompt button. The page number in the lower right corner of the screen will appear in purple. Repeat for each of the desired four pages.

3 To view the selected pages press the RED button for ROTATE.



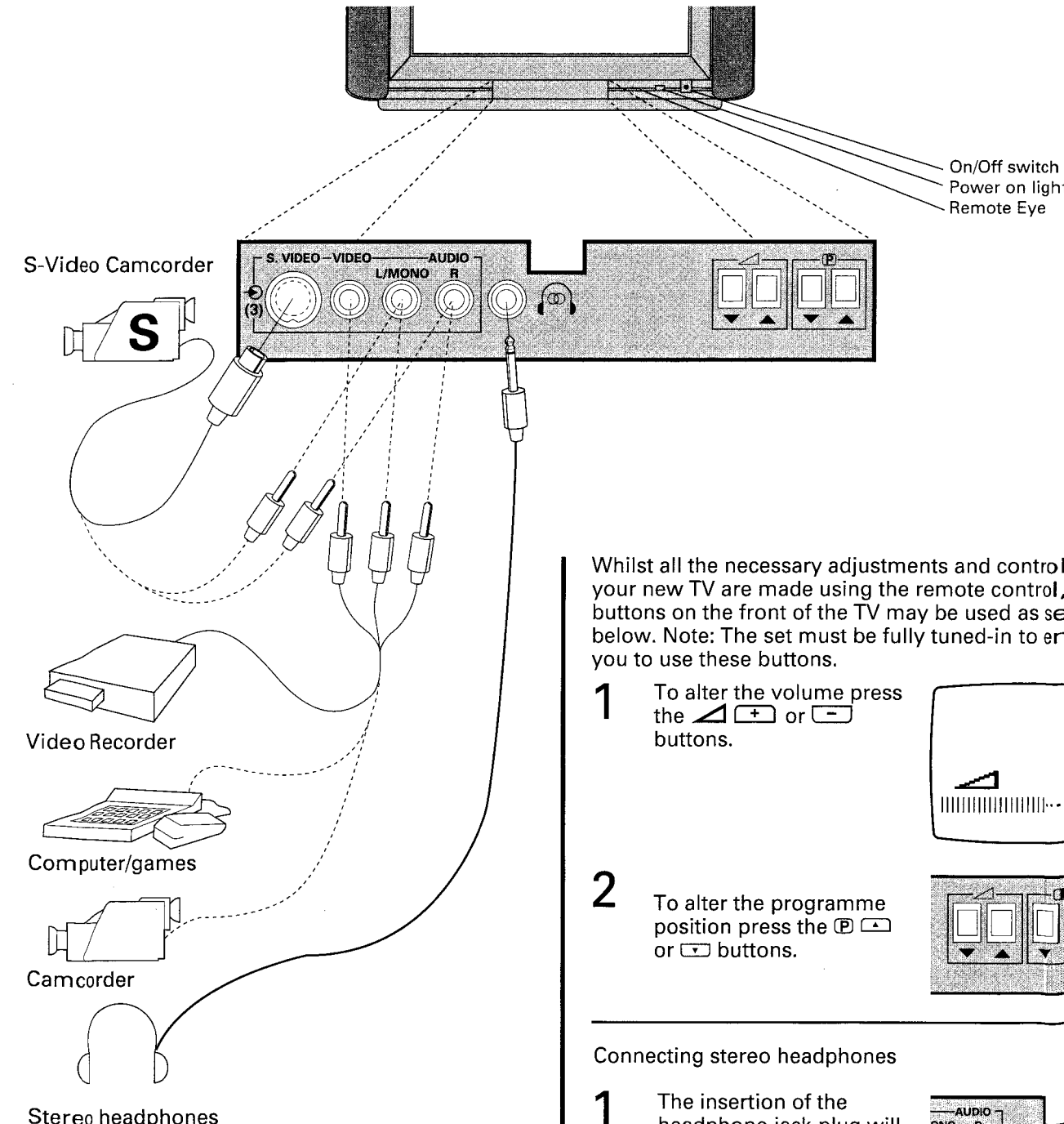
4 To pre-programme an initial page.
Select the INITIAL function by pressing the YELLOW coloured button on the remote control unit.
The numbers in the top left corner of the screen will appear as P*** in red. Enter the required 3 digit page number. As you key in the desired initial page, for example Page 220, the numbers will replace the P***.





TV Front Connections

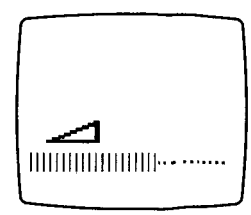
For your convenience you can now make connection of camcorders, computer games etc. much more easily. These are accessible through the sockets located behind the flap on the front of the TV set. To open, simply press the centre of the panel. Do not connect equipment to both the front and rear AV ⇥3 input terminals at the same time.



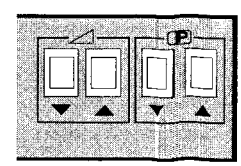
Note: Do not connect equipment to both the front input sockets at the same time (S/Video and Video).

Whilst all the necessary adjustments and controls for your new TV are made using the remote control, the buttons on the front of the TV may be used as set out below. Note: The set must be fully tuned-in to enable you to use these buttons.

1 To alter the volume press the + or − buttons.



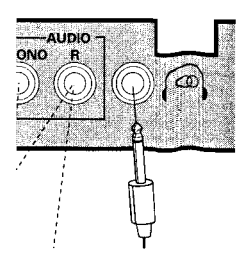
2 To alter the programme position press the P ▲ or ▼ buttons.



Connecting stereo headphones

1 The insertion of the headphone jack-plug will mute all sound from the speakers.

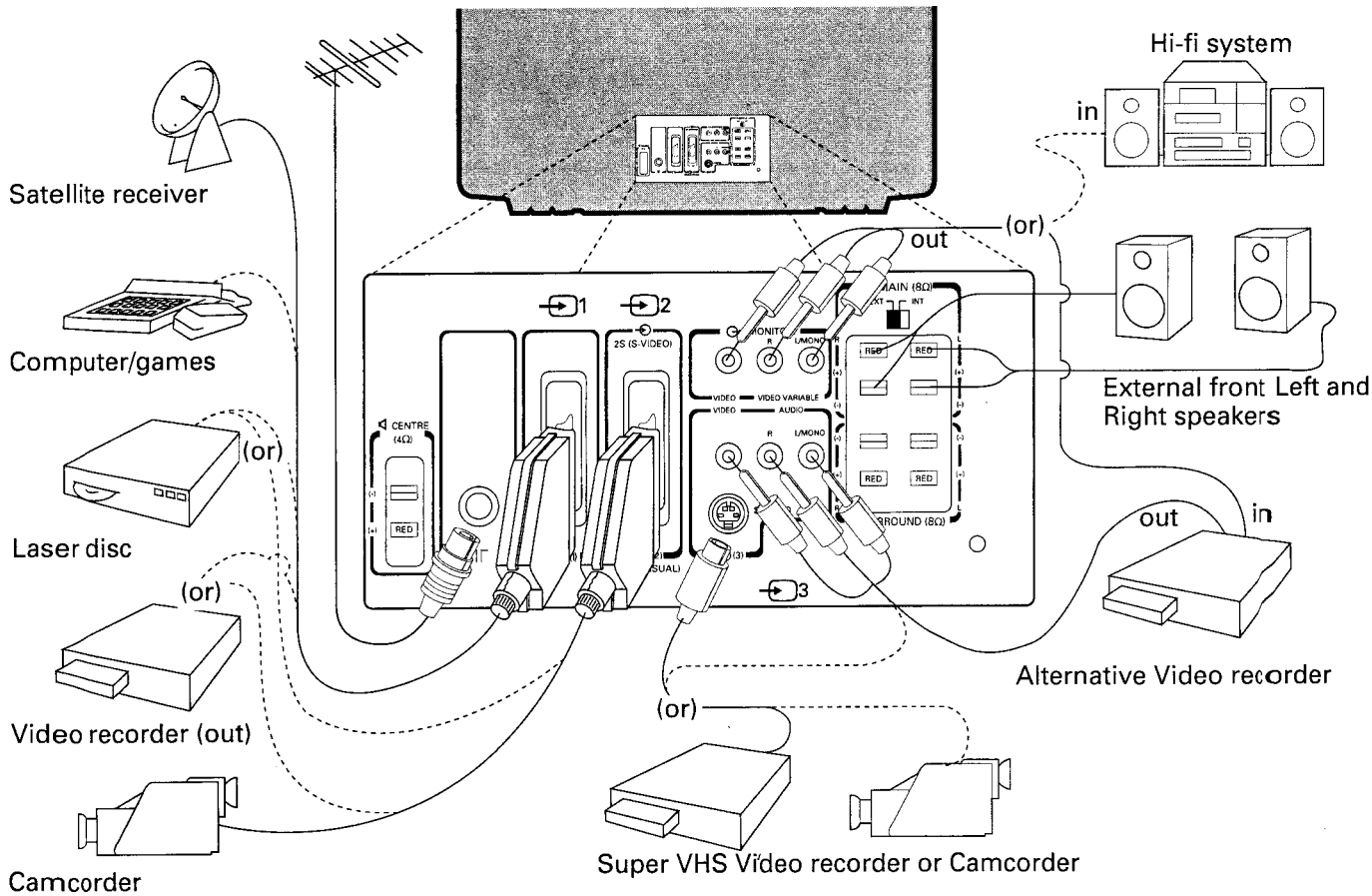
By pressing the volume + or − buttons you can increase (or decrease) the sound level.

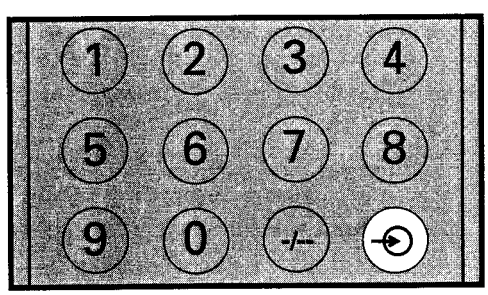


TV Back Connections

The diagram below illustrates some of the possible connections for auxiliary equipment. Please refer to pages 28/29 or the relevant handbook for further details. Having connected your video recorder, satellite receiver etc. as shown in the diagram below you may need to set up the TV accordingly, using the external source selection button ⊕. If your TV automatically switches over to monitor the auxiliary equipment you can reset it simply by pressing the desired programme position button. To recall the auxiliary equipment, press the ⊕ button.

Note: A wider front Stereo effect may be obtained by connecting extension front speakers

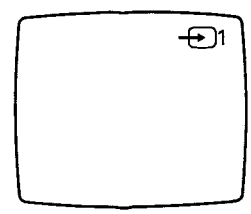




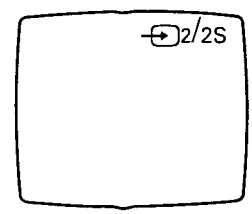
When connecting external Hi-fi speakers of your choice, they must be 8 ohm, 10W minimum.
Please Note:

1. You must set the switch to EXT and observe the correct polarity.
2. When connecting external speakers always make sure that the power switch is turned off.
3. Never 'short ' the speaker cables.

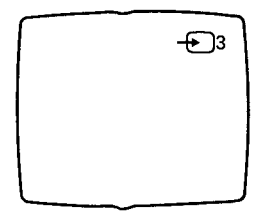
1 Press the ⊕ button to bring up the adjacent display. This will set your TV to a video connected through Scart 1.



2 Press the ⊕ button again to connect a second video recorder, laser disc player, Camcorder, computer/games or satellite receiver through Scart 2.



3 Press the ⊕ button again to connect a Camcorder to the front of the TV or to the Super VHS connector at the rear of the TV, use the external source button to set to input 3.



Connections, mono selection

One Shot Memory
When you connect a Satellite Receiver and/or Video Recorder via a scart lead, you may discover that the TV automatically switches over to give priority to auxiliary equipment. To reset the TV simply press the desired programme position button. To recall the auxiliary equipment, press the ⊙ button.

Connections:

These sets have two 21 pin Scart sockets which enable you to connect a wide range of audio and video equipment (see pages 28/29).

If your auxiliary equipment does not have a Scart socket. Connect the video, satellite receiver etc. to the TV via the aerial socket.

To tune your TV to a video recorder/satellite receiver, press the 'Power On' button and either play a pre-recorded tape (on the video recorder) or select a good satellite programme (on the satellite receiver).

Press the MENU button on the remote control repeatedly until the >>> symbol is displayed. Select the >>> symbol using the ▽, press the + button to commence the search.

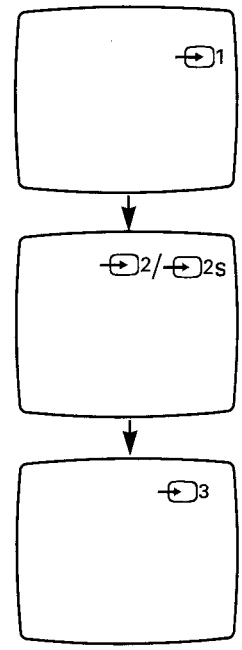
When the playback or satellite programme is found, assign your chosen programme position(s). (Full details on tuning-in are to be found on pages 6 and 7 of this handbook.)

Automatic Input Selection

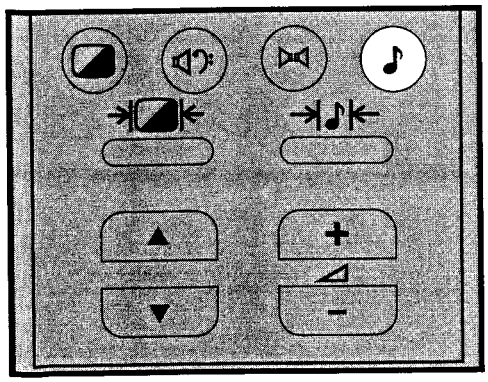
1 If any auxiliary equipment is connected to this TV via the scart connector, you may discover that the TV automatically switches over to monitor the equipment. This depends upon the type of auxiliary equipment connected.

To return to TV mode simply press one of the numbered buttons on the remote control. To view the auxiliary equipment once again, simply press the ⊙ button.

If the TV does not switch over automatically, press the ⊙ button to select between input 1 (Scart 1), input 2/2S (Scart 2) or input 3. Press the ⊙ button to return to TV mode.



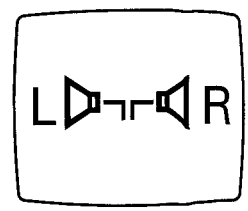
Mono selection:



Note: Do not use DSP or Pro Logic when in either L-L or R-R modes as it requires a stereo source.

1 If you have a mono video player, or choose to connect any other equipment using any leads other than the scart leads, you may discover that the sound only comes from one set of speakers. If this is the case press the ♪ button repeatedly to select the adjacent display.

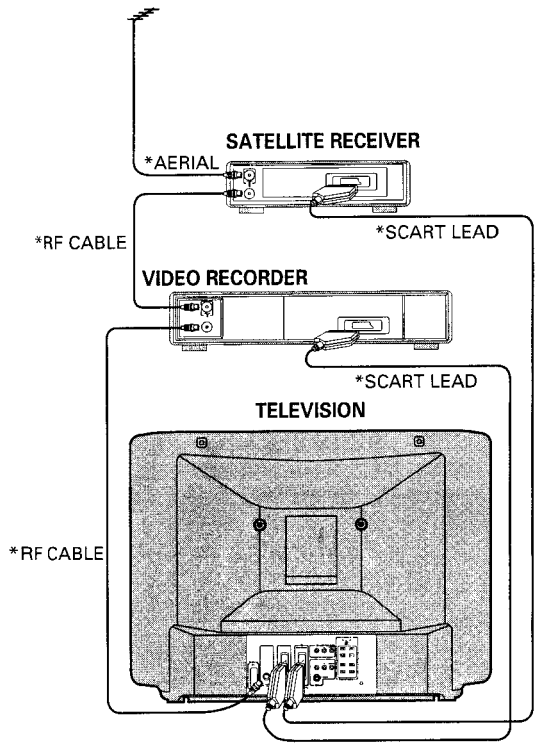
2 Press the + (or −) buttons repeatedly until you hear the sound coming from both speakers.



Connecting satellite receiver/video recorder

Shown on these two pages are some basic connections for other equipment. If your particular 'Set-up' is not shown, please contact your local dealer, who will be able to advise you accordingly. For the best results we recommend that you use Scart connectors whenever possible. Phono and RCA jacks are also provided.

Connecting a Satellite Receiver/Video Recorder:

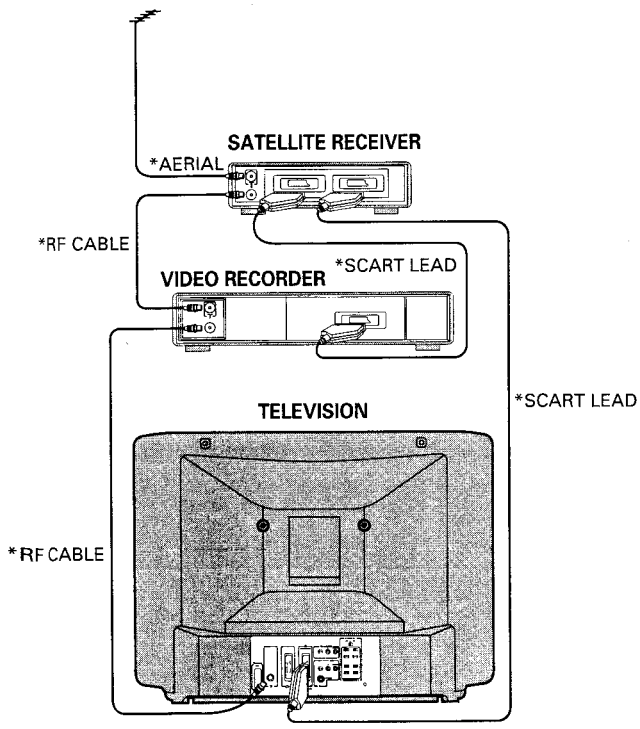


To connect a satellite receiver with 1 Scart socket and a video recorder with 1 Scart socket to your television.

1 Connect the Aerial/R.F. Cable as shown opposite.

2 Connect the Scart leads as shown.

3 This configuration will now enable you to record from the Satellite Receiver but will not give a stereo soundtrack on the recording.



To connect a satellite receiver with 2 Scart sockets to a video recorder with 1 Scart socket and then to Scart 1 on your television.

1 Connect the Aerial/R.F. Cable as shown opposite.

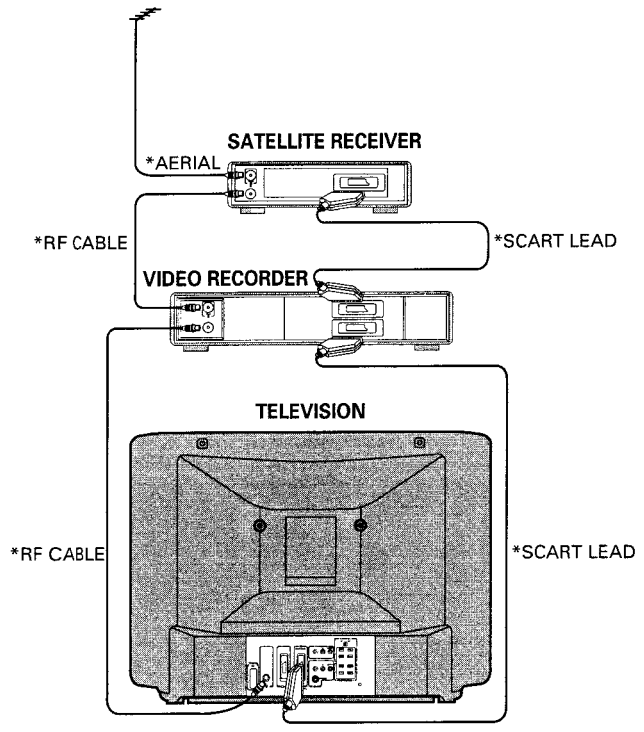
2 Connect the Scart leads as shown.

3 This configuration will now enable you to record directly from the Satellite Receiver in stereo (if your equipment has this facility).

* Not supplied with this television.
Full specification Scart leads are required.

Connecting satellite receiver/video recorder

Connecting a Satellite Receiver/Video Recorder:

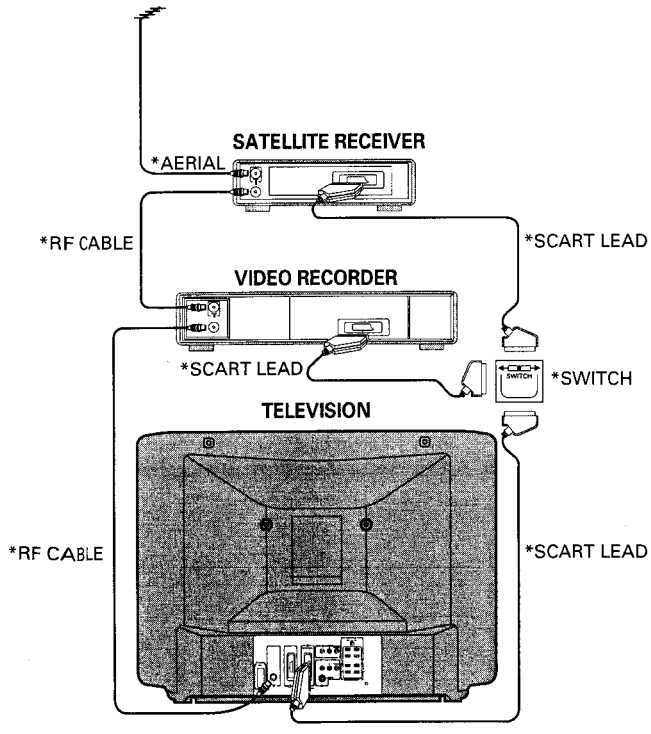


To connect a satellite receiver with 1 Scart socket to a video recorder with 2 Scart sockets and then to Scart 1 on your television.

1 To connect the Aerial/R.F. Cable as shown opposite.

2 Connect the Scart leads as shown.

3 This configuration will now enable you to record directly from the Satellite Receiver in stereo (if your equipment has this facility).



To connect a satellite receiver with 1 Scart socket and a video recorder with 1 Scart socket to Scart 1 on your television via a switch.

1 Connect the Aerial/R.F. Cable as shown opposite.

2 Connect the Scart leads as shown.

3 This configuration will now enable you to record directly from the Satellite Δ in stereo (if your equipment has this facility) whilst watching a terrestrial TV programme.

* Not supplied with this television.
Full specification Scart leads are required.

Specifications

Specifications:

Receiving system	PAL I		
Receiving channels	UHF 21-69		
External Audio-Video input/output:	PAL/NTSC (VTR playback)		
AV In/Out	⇥1; (Scart -1) Full -21 pin (RGB, Normal Video, Audio L-R)		
(Output; TV out)	⇥2; (Scart-2) Full -21 pin (RGB, Normal Video, Audio L-R)		
AV Input (Front/Rear)	⇥3; (4 pin S, RCA jack) Normal/S-video, Audio L-R		
AV Output	Monitor output, (RCA jack) Normal video, Audio L-R		
External Speaker Terminals	Main 2; Surround 2 (for rear speakers)		
Headphone Socket	3.5mm Stereo		
Sound output	Main: 8W + 8W		
(at 10% distortion)	Super Woofer: 13W or Centre Speaker: 10W		
	Rear: 5W + 5W		
	(Model 2539)	(Model 2939)	(Model 3339)
Visible Picture*	59 cm	68 cm	80 cm
Dimensions	712 mm (W)	800 mm (W)	932 mm (W)
	530 mm (H)	589 mm (H)	685 mm (H)
	483 mm (D)	510 mm (D)	561 mm (D)
Power consumption	169W	179W	185W
(at AC 220-240V 50Hz)			
Weight	31.7 Kg	43.0 Kg	54.7Kg
Fuse	5A		

* Measured Diagonally

Accessories:

1 Remote control
2 Surround Speakers
2 Cables for Surround Speakers
2 (RO3, AAA) batteries
1 Scart lead
1 Stand including centre speaker

For your guidance

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT. PLEASE READ THE FOLLOWING POINTS CAREFULLY. THEY ARE OF A GENERAL NATURE, INTENDED TO HELP YOU WITH ALL YOUR ELECTRONIC CONSUMER PRODUCTS. SOME ITEMS MAY NOT APPLY TO THE GOODS YOU HAVE JUST PURCHASED.

Safety tips:

This equipment has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.
DO ensure that all electrical connections, including the mains plug, extension leads and inter connections, between pieces of equipment, are properly made and in accordance with the manufacturers instructions. Switch off and withdraw the mains plug when making or changing connections.
DO be careful with glass panels or doors on equipment.
DON'T continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.
DON'T remove any fixed cover as this may expose dangerous voltages.
DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.
DON'T leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.
DON'T listen to headphones at high volume, as such use can permanently damage your hearing.
DON'T obstruct the ventilation of the equipment for example, with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.
DON'T use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided, according to the instructions.
DON'T allow electrical equipment to be exposed to rain or moisture.
ABOVE ALL - NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case - this could result in a fatal electric shock - NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry.

Cleaning the screen and cabinet. After turning off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

Simple problem solving:

No Picture or Sound.
Check mains switches are on, press ⏻. Plug into a known working mains socket.
'Timer off' facility has operated.

Poor or no Picture.
Try a different TV station, check your aerial and connections. Adjust fine tuning.

Good picture but no sound.
Press ◿ ▲.
Check that the External Main speaker switch is in the INT position.

Blue Screen.
The set senses a 'no signal' condition, check the aerial connection, switch to a different programme position or confirm that there is no transmitted signal using another TV or check with a neighbour.

Remote Control does not work.
Check the batteries.

If you have problems with text.
Go to the main index page of the text service and look for the User Guide. This will explain the basic operation of text in some detail.

No Dolby Surround
If you are unable to obtain surround sound effects from the rear speakers whilst playing a Dolby Surround video tape, check that the video recorder is a stereo unit and that the direct left and right audio signals are input to the TV by means of either the 21-pin sockets or the phono "Video 3" sockets.

Coloured patches on screen.
Caused by magnetic field interference, turn off TV for 10 minutes, turn on again, fault of temporary nature.

VTR or Satellite picture in Black and White.
Ensure the correct input socket is being used and that the socket is not switched to S-Video.

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Toshiba (UK) Ltd
Toshiba House, Frimley Road, Frimley, Camberley, Surrey, UK GU16 5JJ
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